SUBSTITUTE SHEET (RULE 26)

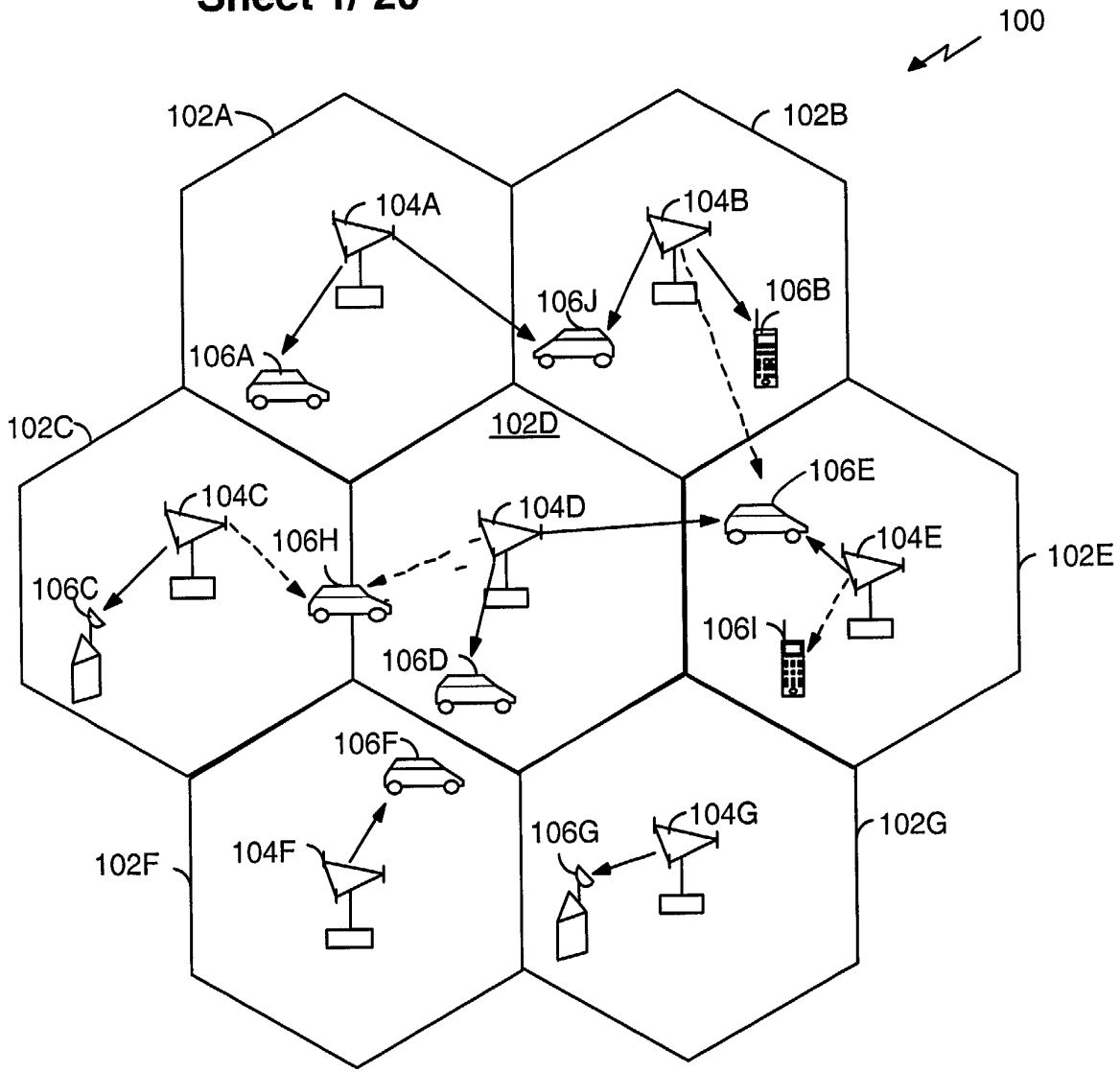


FIG. 1

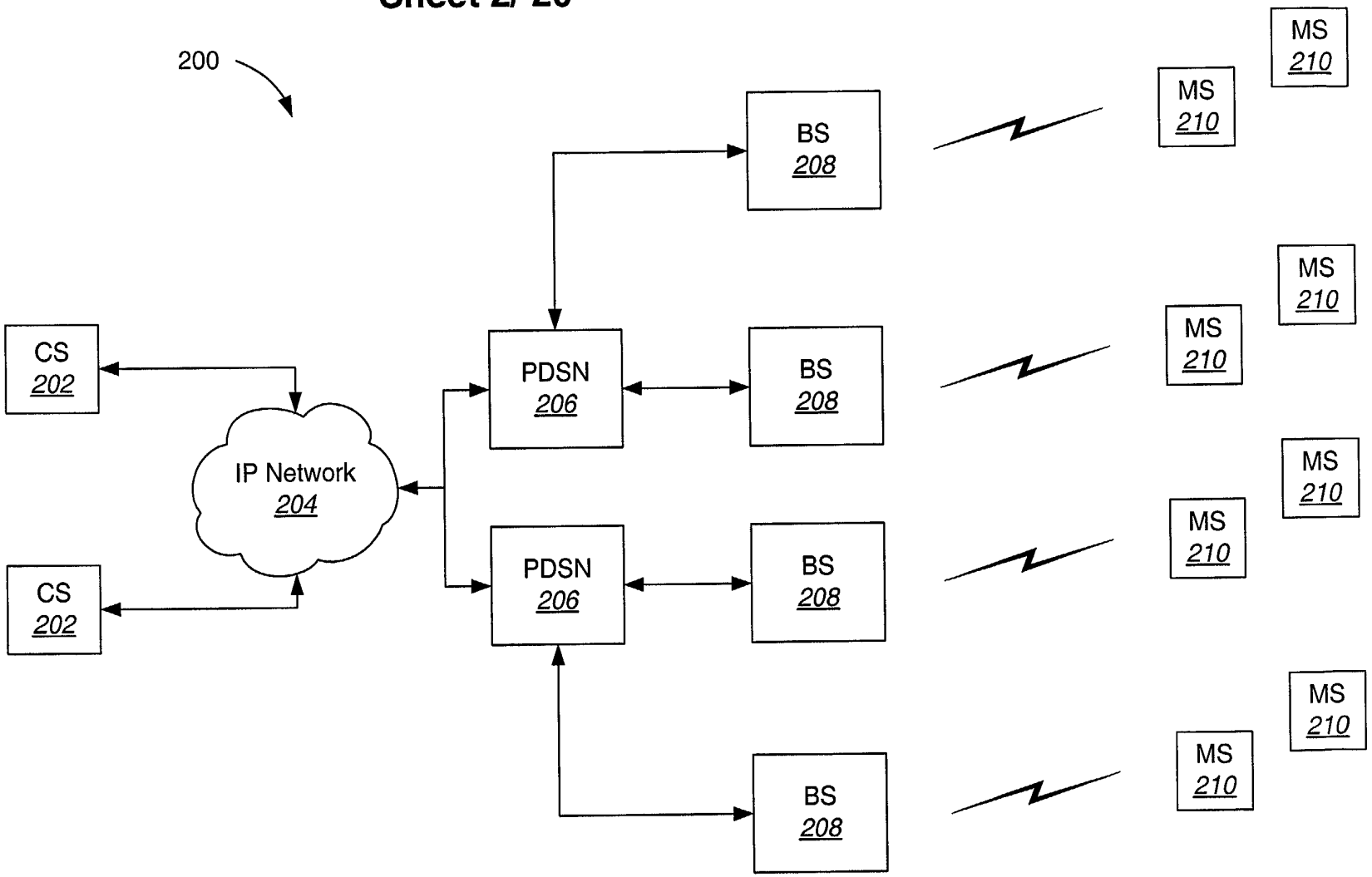

200
CS
202
CS
202
IP Network
204
PDSN
206
PDSN
206
BS
208
BS
208
BS
208
BS
208
MS
210
MS
210
MS
210
MS
210
MS
210
MS
210
MS
210
MS
210

FIG. 2

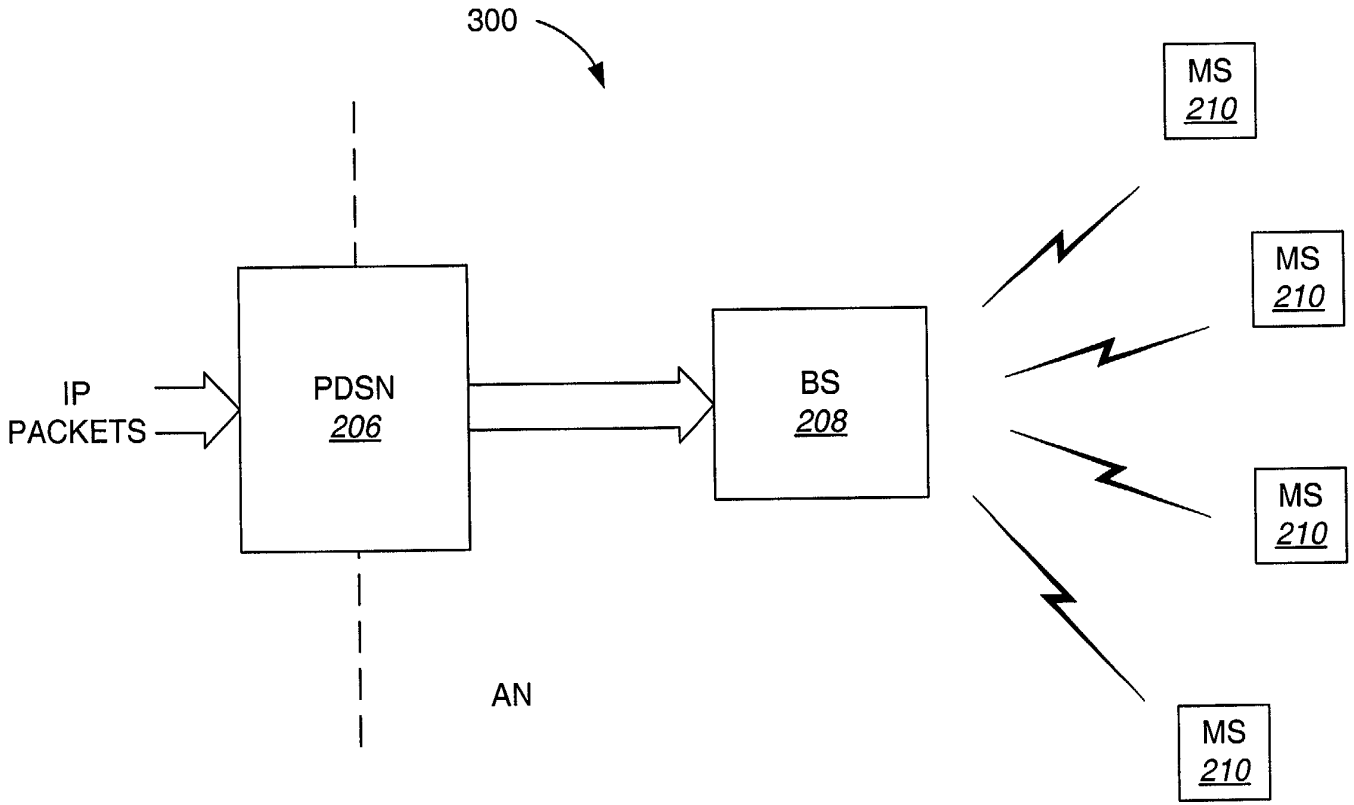


FIG. 3

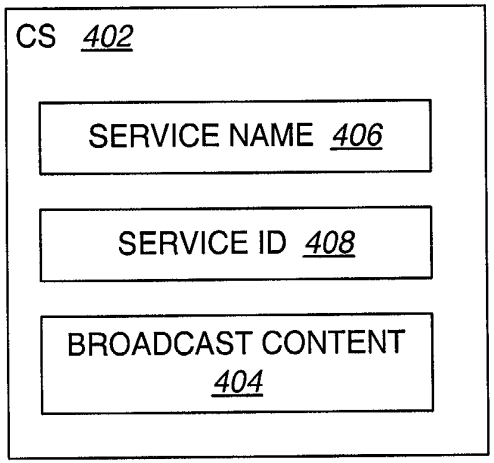

CS 402
SERVICE NAME 406
SERVICE ID 408
BROADCAST CONTENT 404

FIG. 4

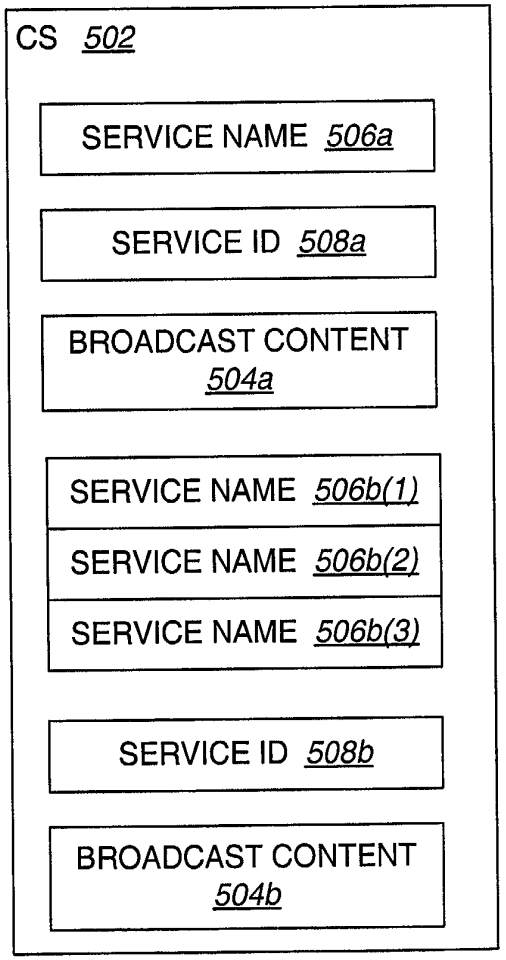

CS 502
SERVICE NAME 506a
SERVICE ID 508a
BROADCAST CONTENT 504a
SERVICE NAME 506b(1)
SERVICE NAME 506b(2)
SERVICE NAME 506b(3)
SERVICE ID 508b
BROADCAST CONTENT 504b

FIG. 5

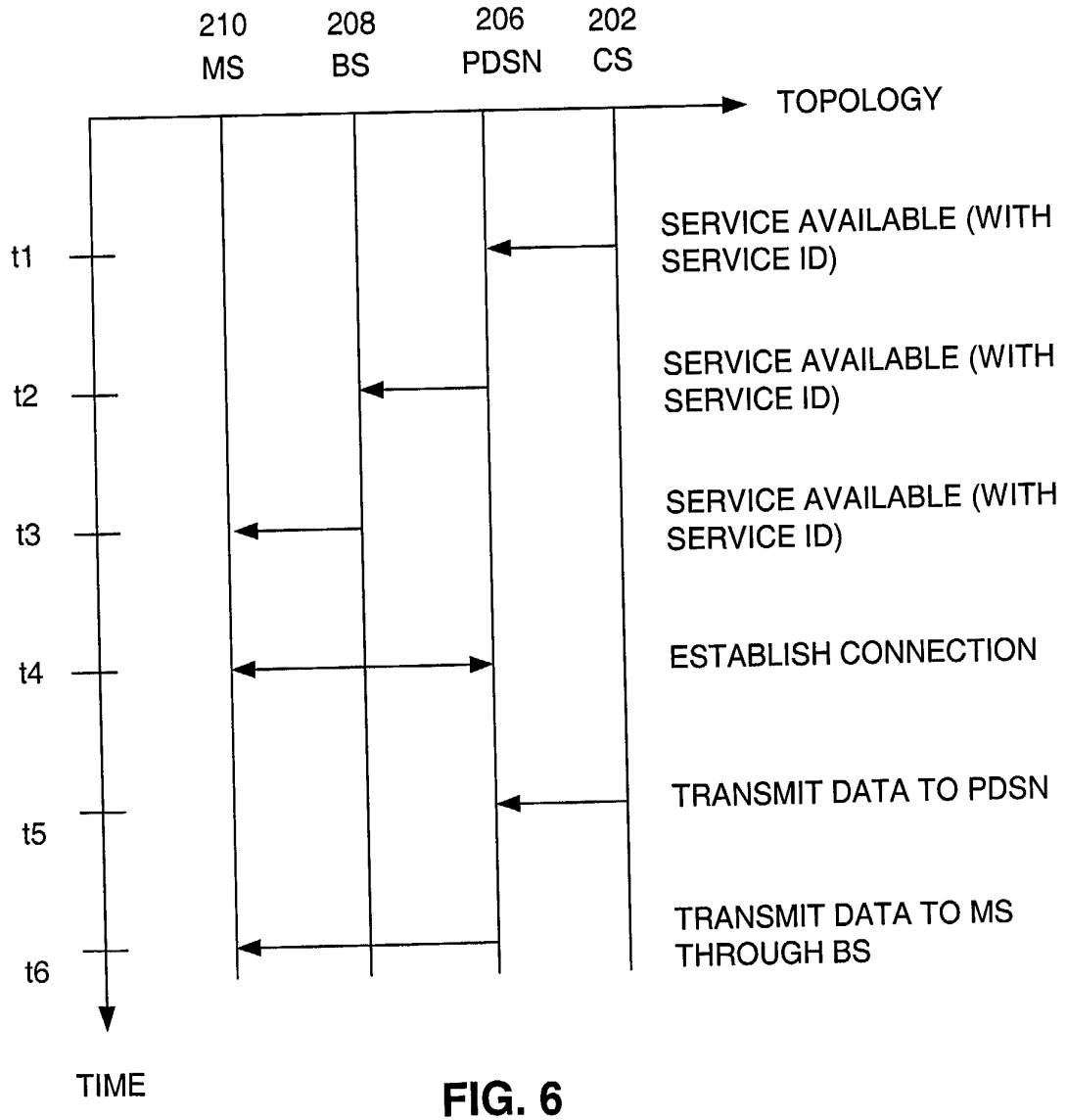

210
MS
208
BS
206
PDSN
202
CS
TOPOLOGY
t1
t2
t3
t4
t5
t6
TIME
SERVICE AVAILABLE (WITH SERVICE ID)
SERVICE AVAILABLE (WITH SERVICE ID)
SERVICE AVAILABLE (WITH SERVICE ID)
ESTABLISH CONNECTION
TRANSMIT DATA TO PDSN
TRANSMIT DATA TO MS THROUGH BS

FIG. 6

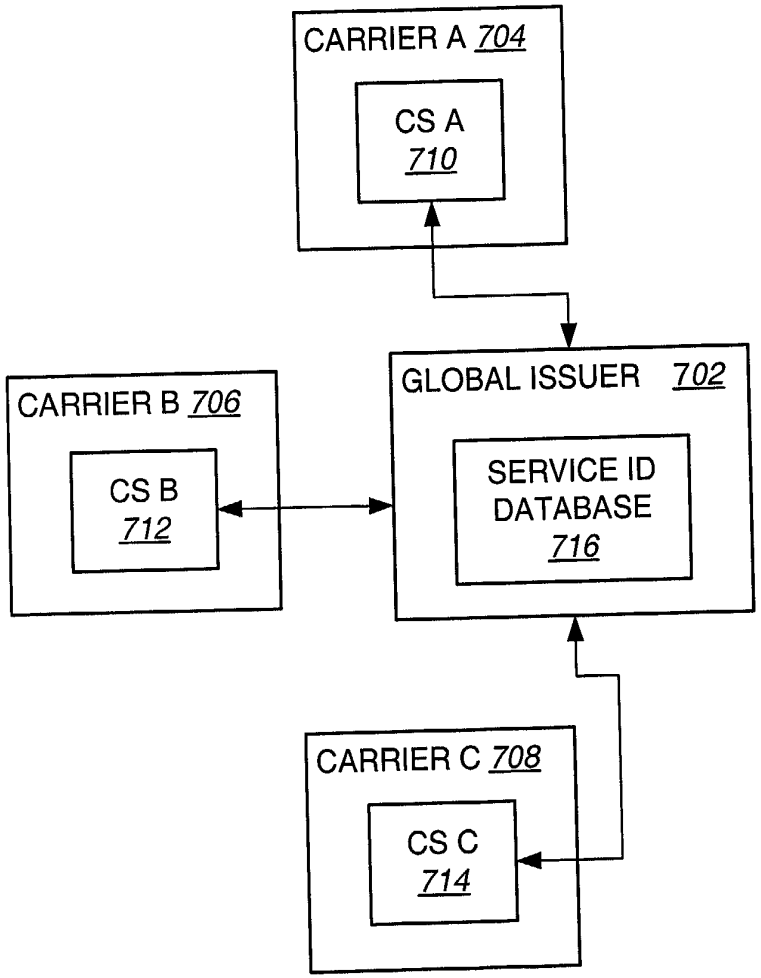


FIG. 7

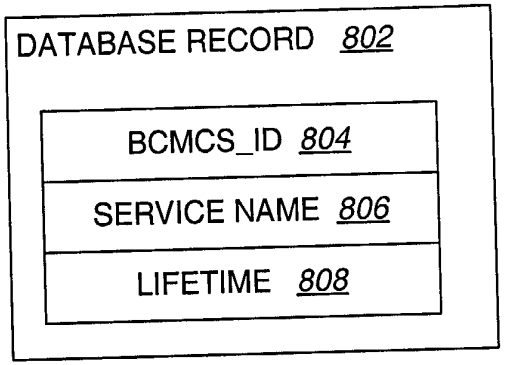


FIG. 8

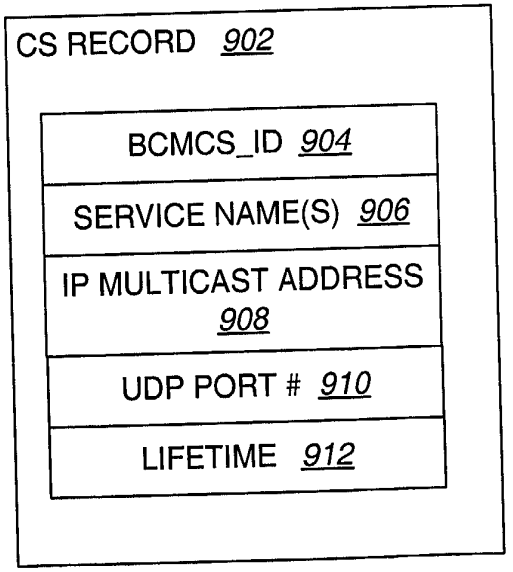


FIG. 9

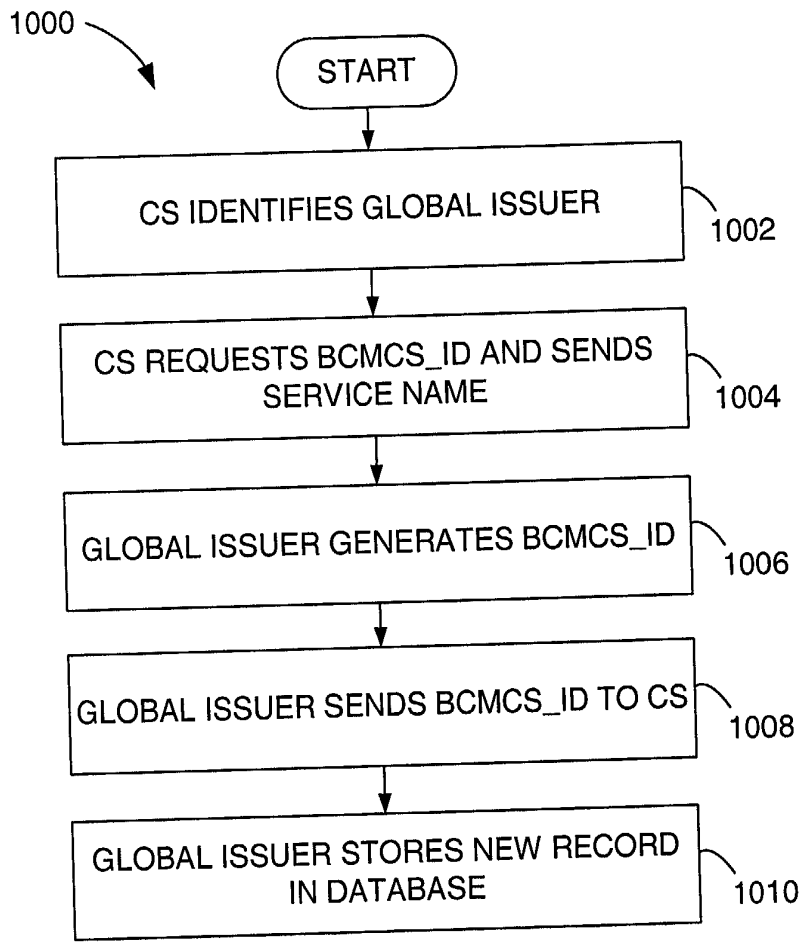

1000
START
CS IDENTIFIES GLOBAL ISSUER
1002
CS REQUESTS BCMCS_ID AND SENDS SERVICE NAME
1004
GLOBAL ISSUER GENERATES BCMCS_ID
1006
GLOBAL ISSUER SENDS BCMCS_ID TO CS
1008
GLOBAL ISSUER STORES NEW RECORD IN DATABASE
1010

FIG. 10

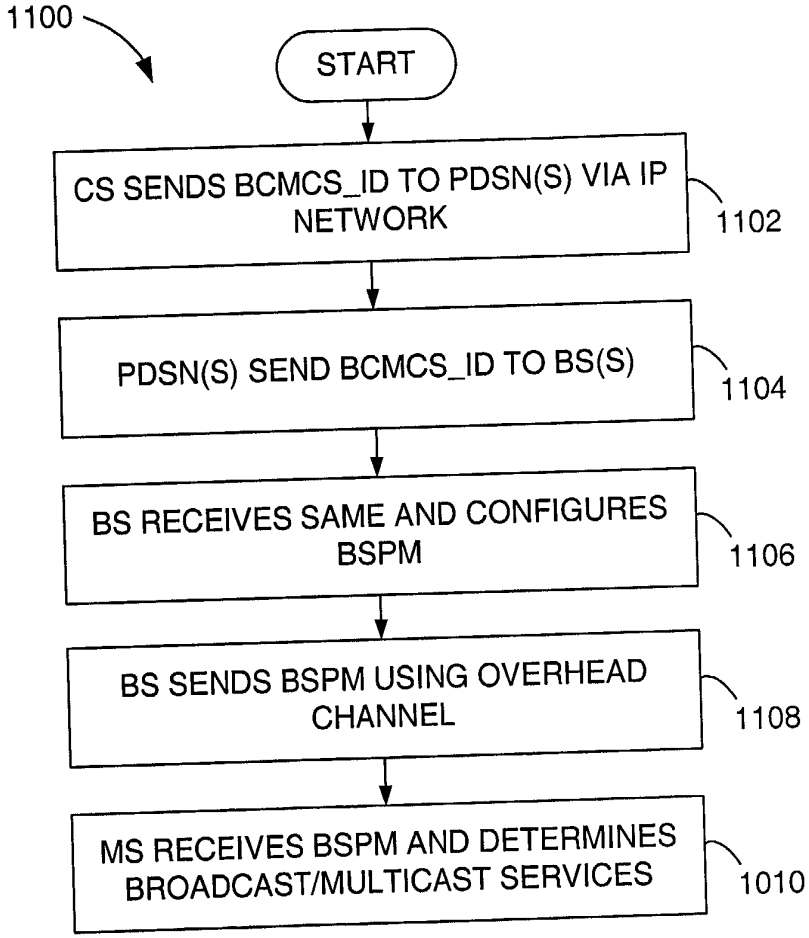

1100
START
CS SENDS BCMCS_ID TO PDSN(S) VIA IP NETWORK
1102
PDSN(S) SEND BCMCS_ID TO BS(S)
1104
BS RECEIVES SAME AND CONFIGURES BSPM
1106
BS SENDS BSPM USING OVERHEAD CHANNEL
1108
MS RECEIVES BSPM AND DETERMINES BROADCAST/MULTICAST SERVICES
1010

FIG. 11

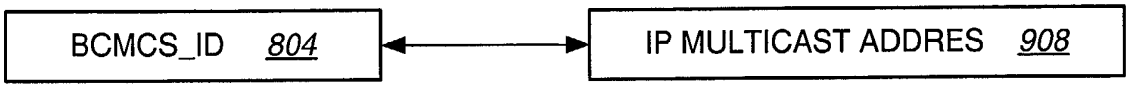


FIG. 12

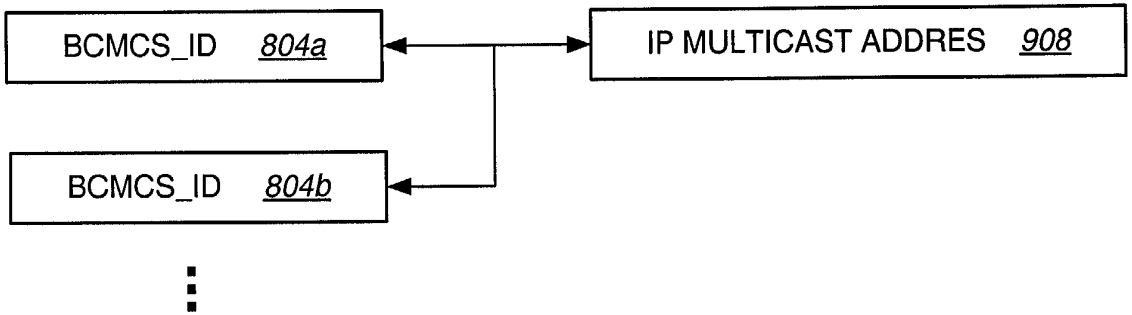


FIG. 13

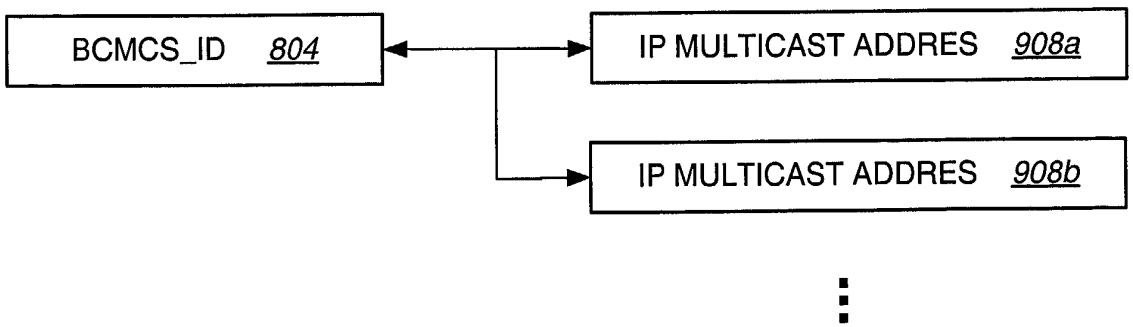


FIG. 14

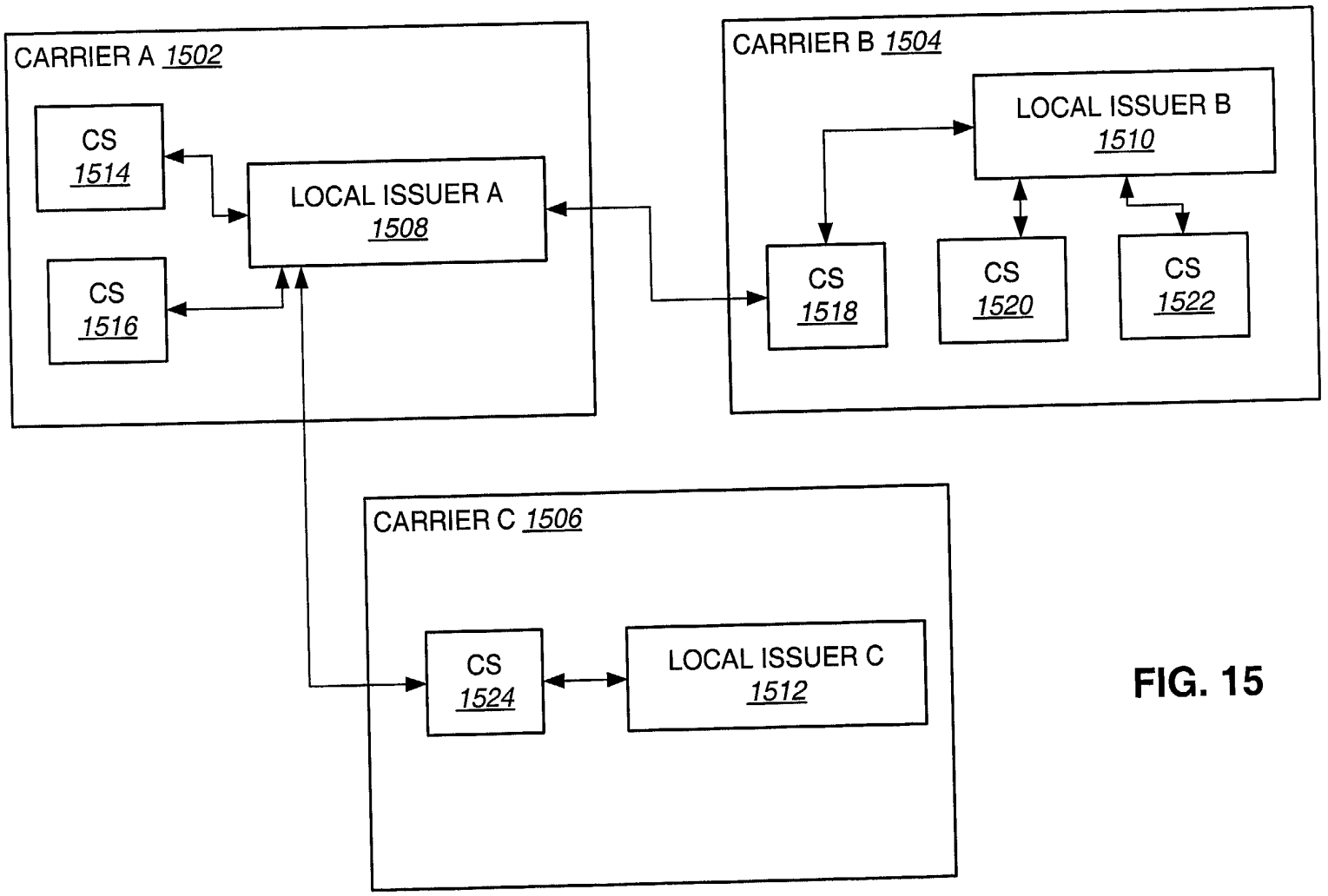

CARRIER A 1502
CS 1514
CS 1516
LOCAL ISSUER A 1508
CARRIER B 1504
LOCAL ISSUER B 1510
CS 1518
CS 1520
CS 1522
CARRIER C 1506
CS 1524
LOCAL ISSUER C 1512

FIG. 15

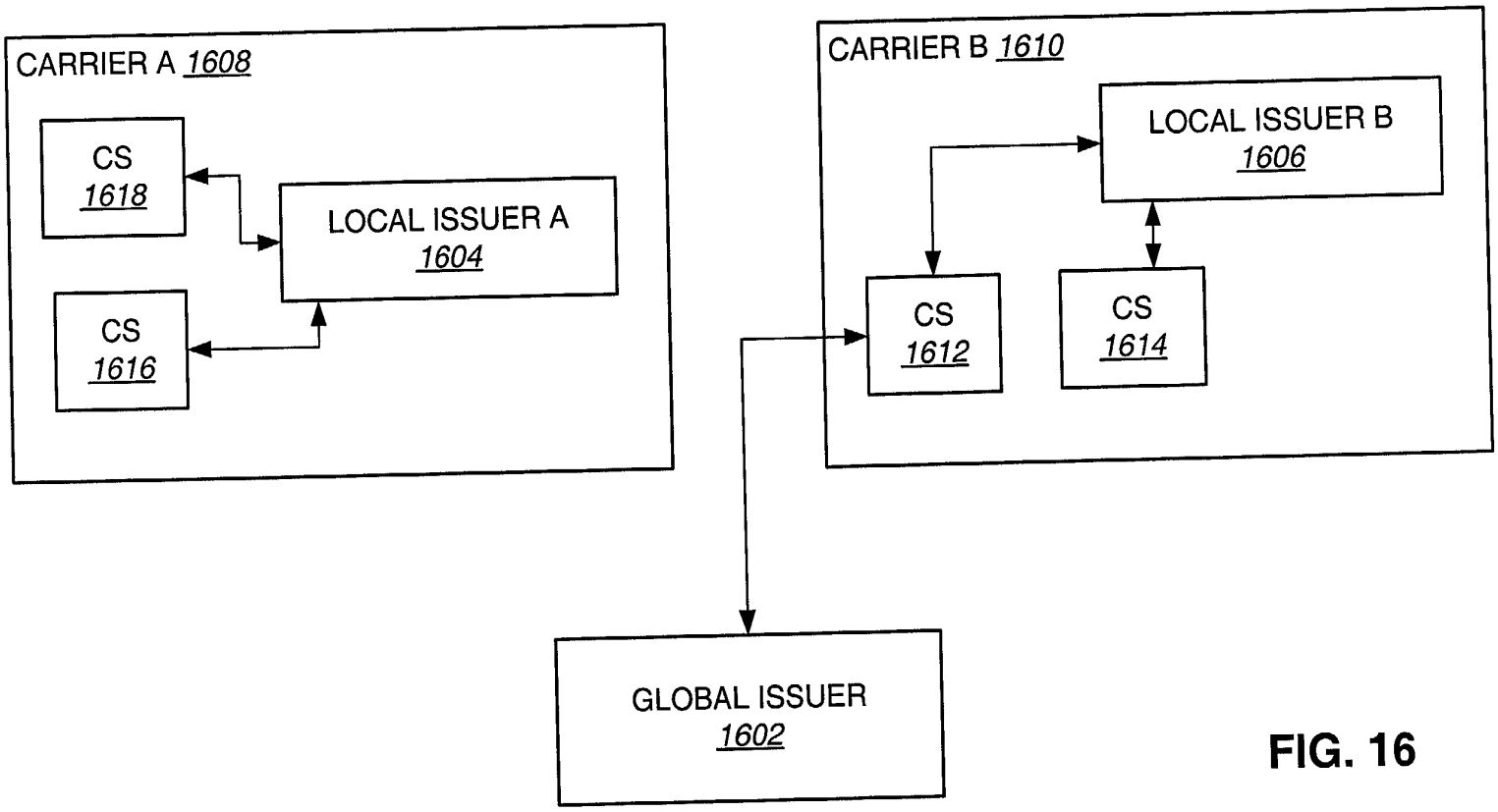

CARRIER A 1608
CS 1618
CS 1616
LOCAL ISSUER A 1604
CARRIER B 1610
LOCAL ISSUER B 1606
CS 1612
CS 1614
GLOBAL ISSUER 1602

FIG. 16

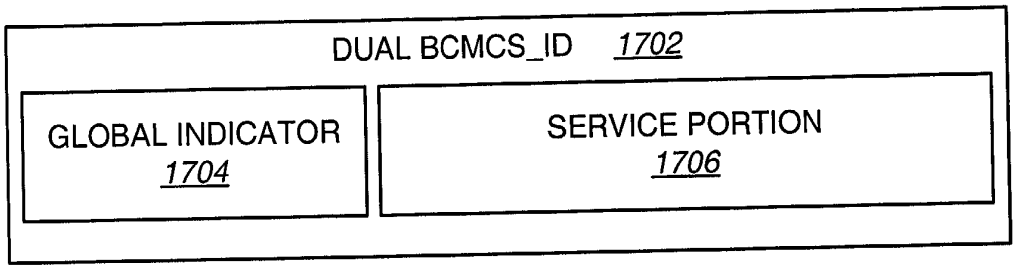


FIG. 17

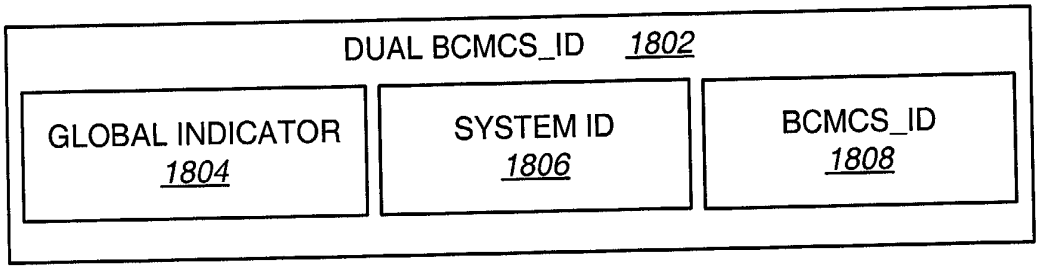


FIG. 18

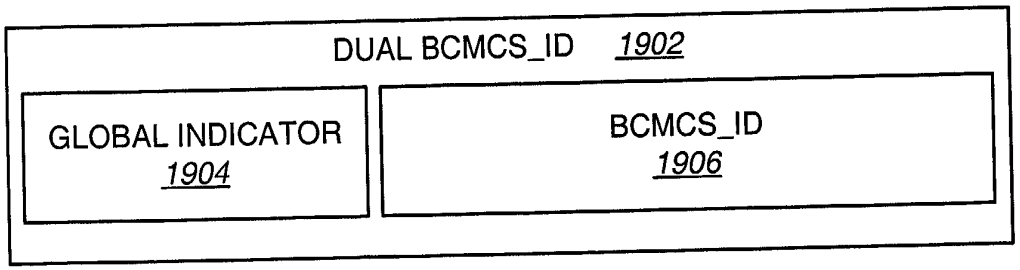


FIG. 19

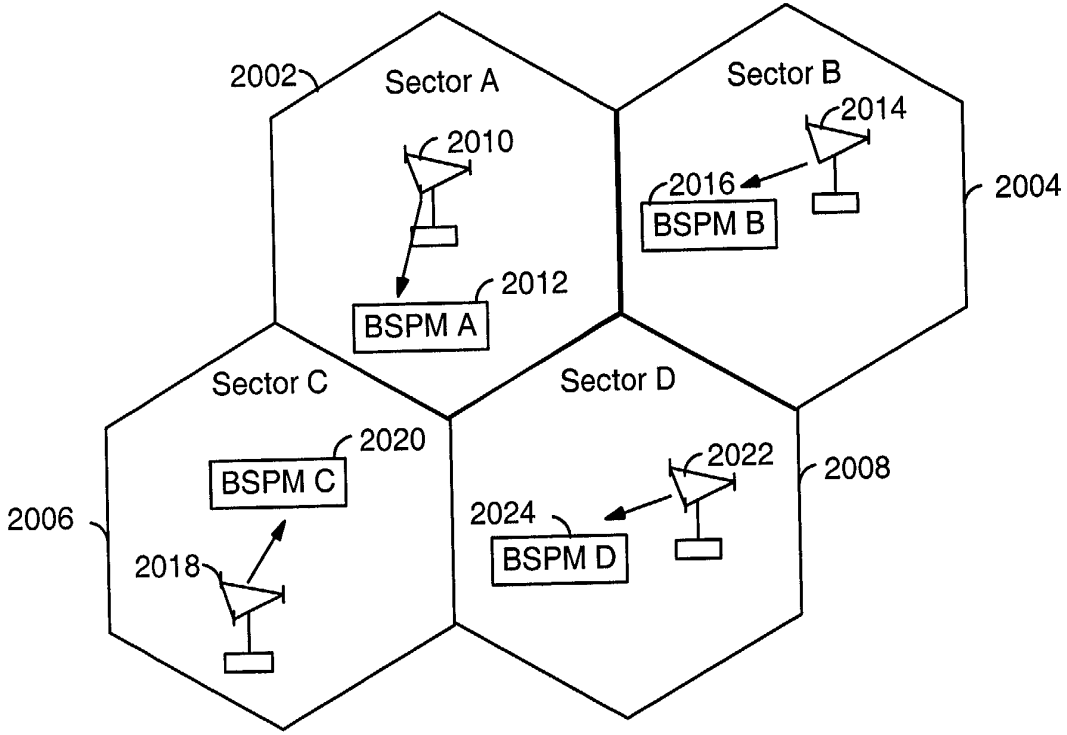

2002
Sector A
2010
2012
BSPM A
Sector B
2014
2016
BSPM B
2004
Sector C
2020
BSPM C
2006
2018
Sector D
2022
2024
BSPM D
2008

FIG. 20

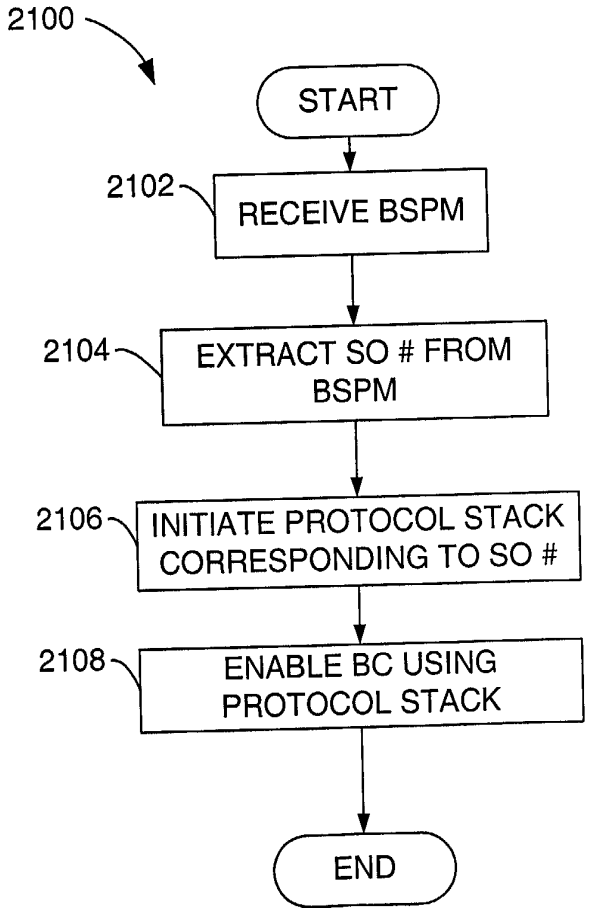

2100
START
2102
RECEIVE BSPM
2104
EXTRACT SO # FROM BSPM
2106
INITIATE PROTOCOL STACK CORRESPONDING TO SO #
2108
ENABLE BC USING PROTOCOL STACK
END

FIG. 21

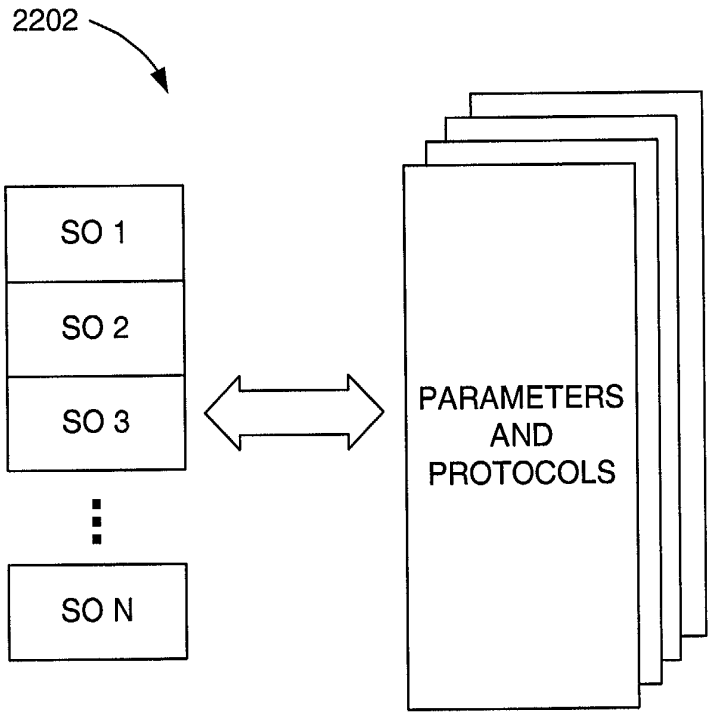


FIG. 22

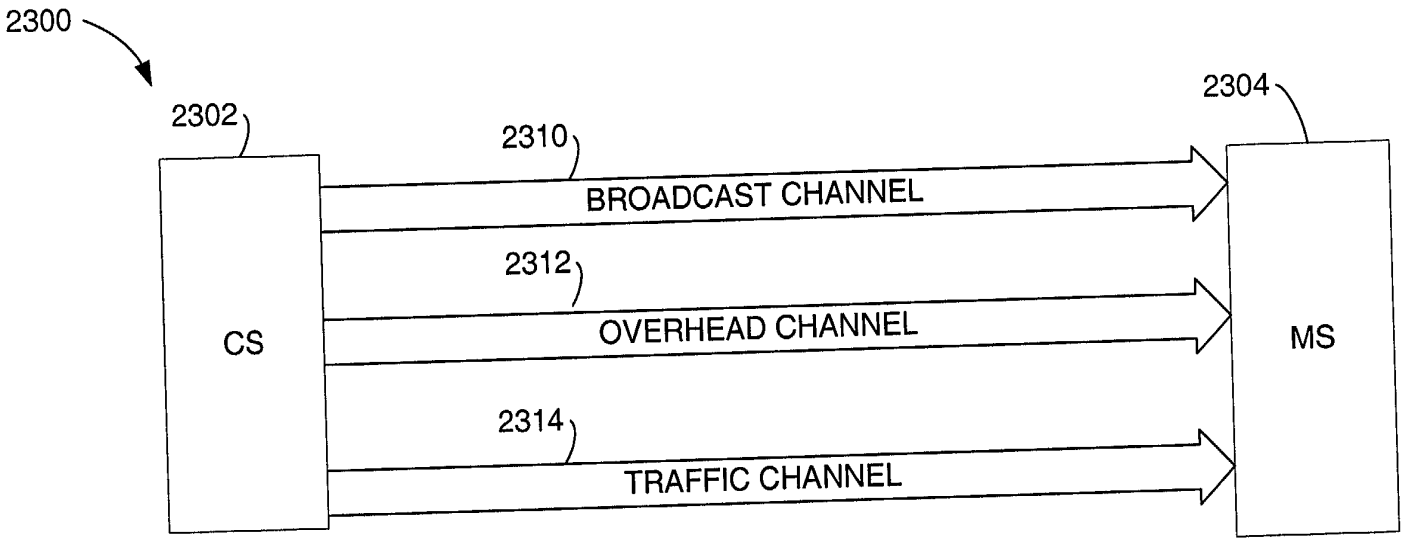

2300
2302
2304
2310
BROADCAST CHANNEL
2312
OVERHEAD CHANNEL
CS
MS
2314
TRAFFIC CHANNEL

FIG. 23

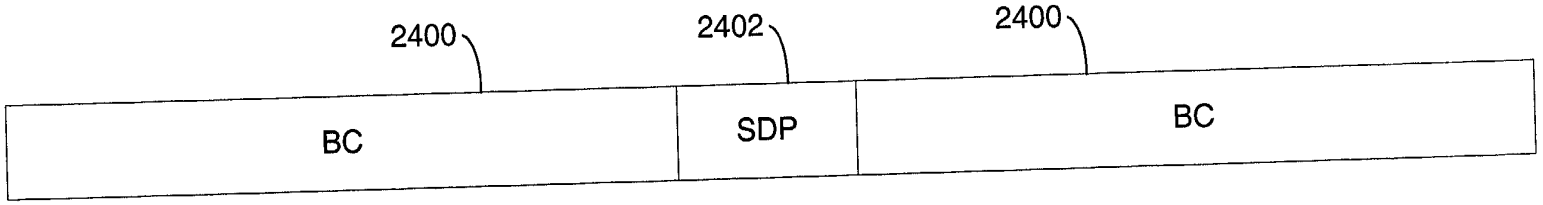

2400
2402
2400
BC
SDP
BC

FIG. 24

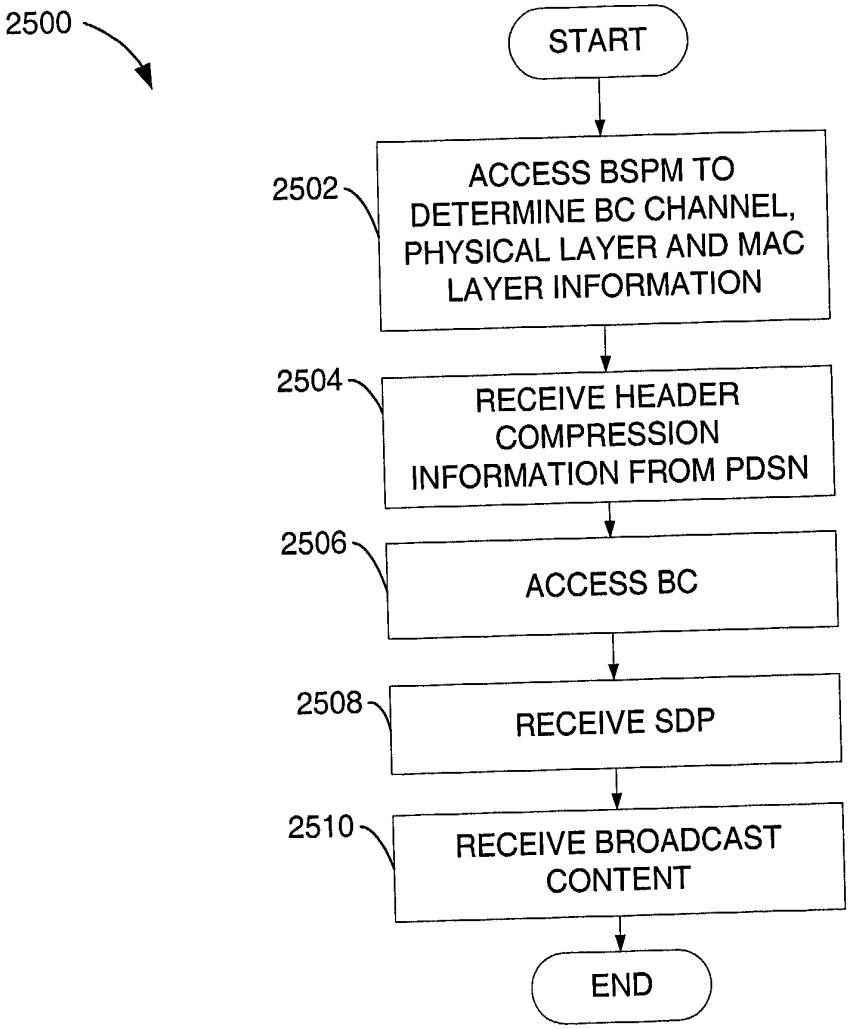

2500
START
2502
ACCESS BSPM TO DETERMINE BC CHANNEL, PHYSICAL LAYER AND MAC LAYER INFORMATION
2504
RECEIVE HEADER COMPRESSION INFORMATION FROM PDSN
2506
ACCESS BC
2508
RECEIVE SDP
2510
RECEIVE BROADCAST CONTENT
END

FIG. 25

PILOT_PN	9
CONFIG_MSG_SEQ	6
HSBS_REG_USED	1
HSBS_REG_TIMER	0 OR 3
NUM_FBSCH	3
NUM_HSBS_SESSION	6

2602

FBSCH_ID	3
FBSCH_FREQ_INCL	1
FBSCH_FREQ	0 OR 11
FBSCH_CODE_CHAN	11
FBSCH_RC	5
FBSCH_RATE	4
FBSCH_FRAME_SIZE	2

2604

BCMCS_ID	20
NUM_LPM_ENTRIES	3

2606

FBSCH_ID	3
BSR_ID	3
NUM_NGHBR	6

2608

NGHBR_PN	9
NGHBR_HSBS_CONFIG	3
NGHBR_FBSCH_ID	0 OR 3
NGHBR_FBSCH_FREQ_INCL	0 OR 1
NGHBR_FBSCH_FREQ	0 OR 11
NGHBR_FBSCHCODECHANINCL	0 OR 1
NGHBR_FBSCH_CODE_CHAN	0 OR 11
NGHBR_FBSCH_PARAMS_INCL	0 OR 1
NGHBR_FBSCH_RC	0 OR 5
NGHBR_FBSCH_RATE	0 OR 4
NGHBR_FBSCH_FRAME_SIZE	0 OR 2

FIG. 26

VALUE	STATUS OF HSBS SESSION IN NEIGHBOR BS
000	Unknown
001	Being transmitted but cannot soft-combine
010	Being transmitted and can soft-combine

FIG. 27

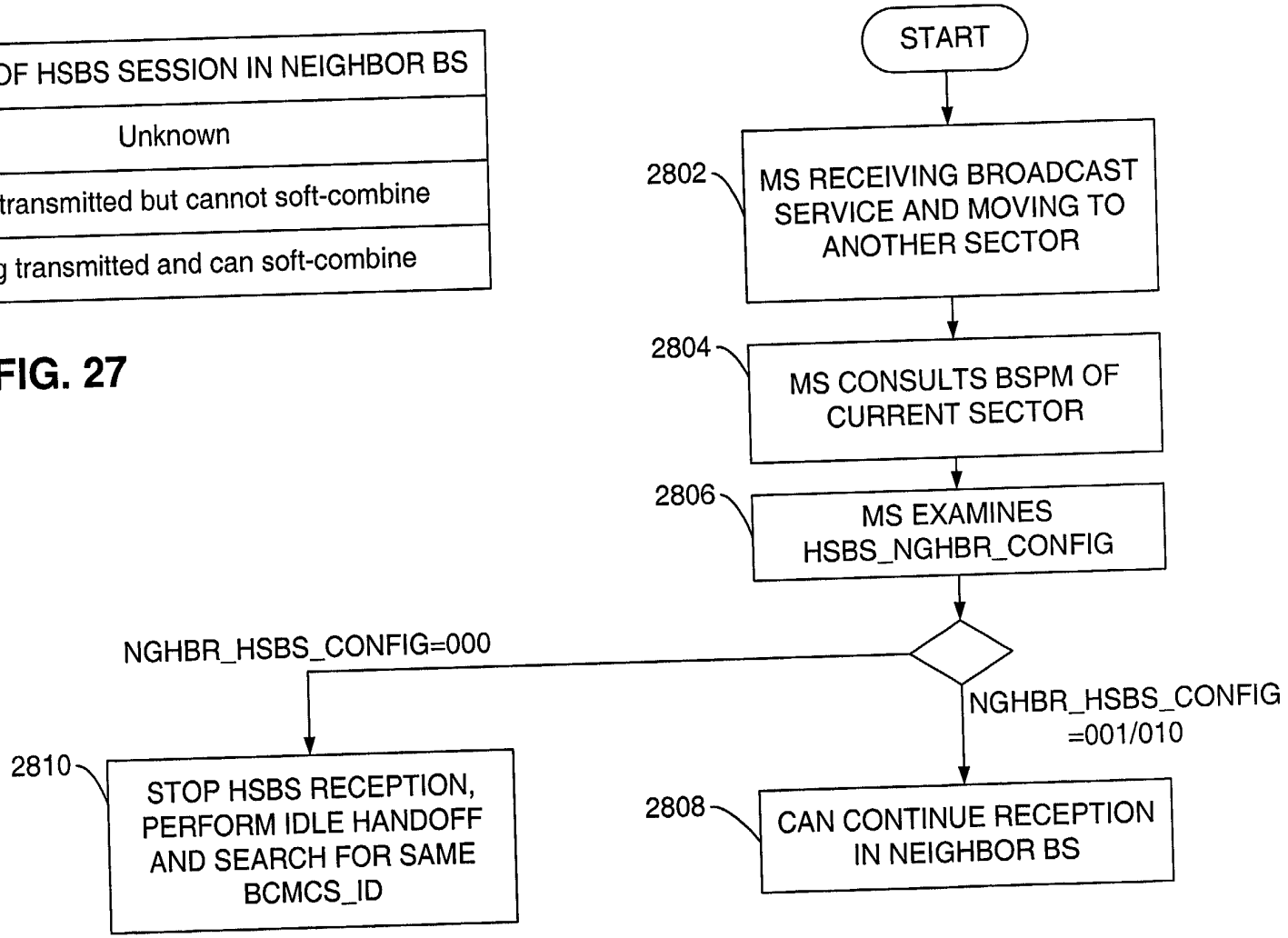
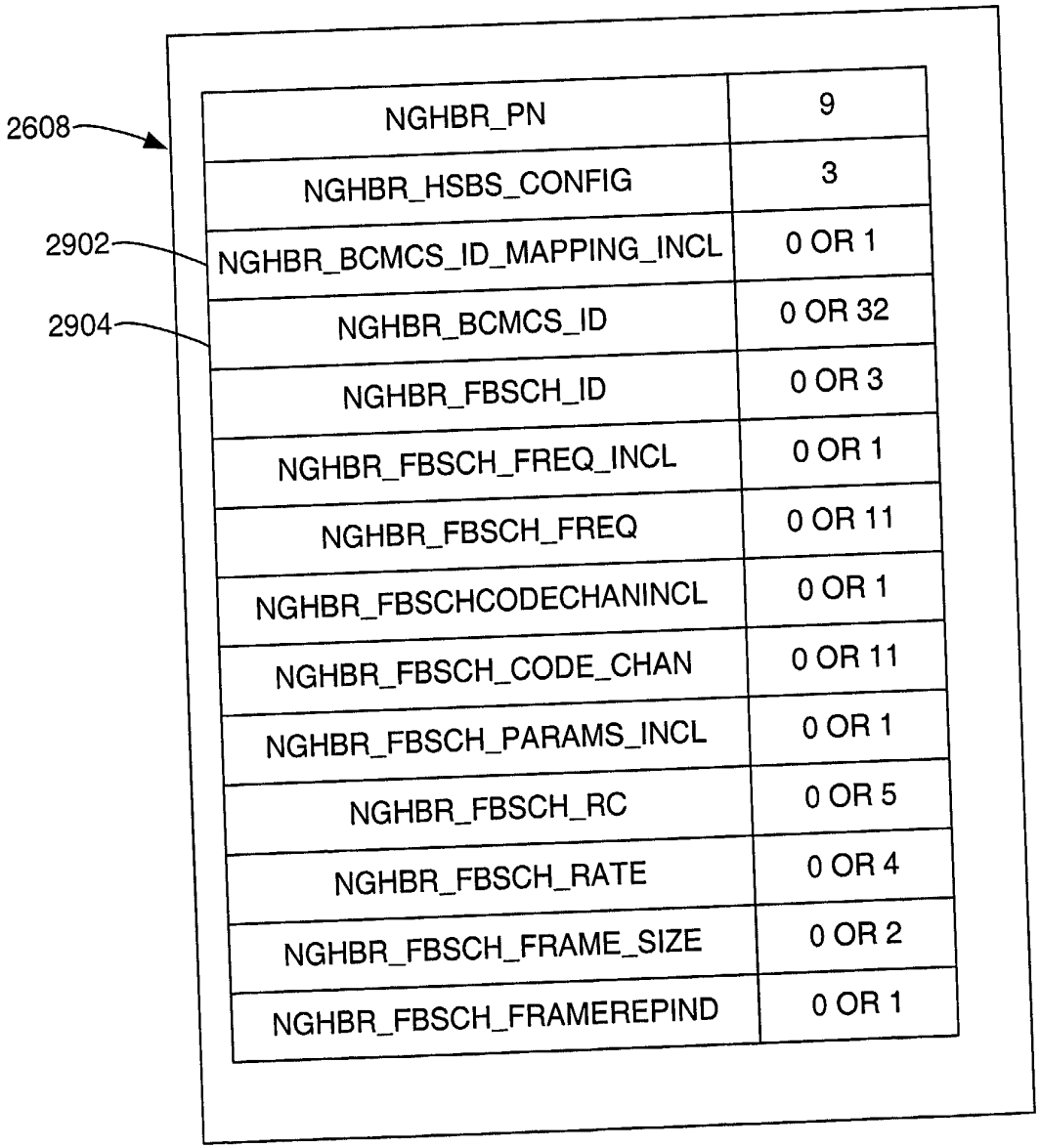


FIG. 28



NGHBR_PN	9
NGHBR_HSBS_CONFIG	3
NGHBR_BCMCS_ID_MAPPING_INCL	0 OR 1
NGHBR_BCMCS_ID	0 OR 32
NGHBR_FBSCH_ID	0 OR 3
NGHBR_FBSCH_FREQ_INCL	0 OR 1
NGHBR_FBSCH_FREQ	0 OR 11
NGHBR_FBSCHCODECHANINCL	0 OR 1
NGHBR_FBSCH_CODE_CHAN	0 OR 11
NGHBR_FBSCH_PARAMS_INCL	0 OR 1
NGHBR_FBSCH_RC	0 OR 5
NGHBR_FBSCH_RATE	0 OR 4
NGHBR_FBSCH_FRAME_SIZE	0 OR 2
NGHBR_FBSCH_FRAMEREPIND	0 OR 1

FIG. 29

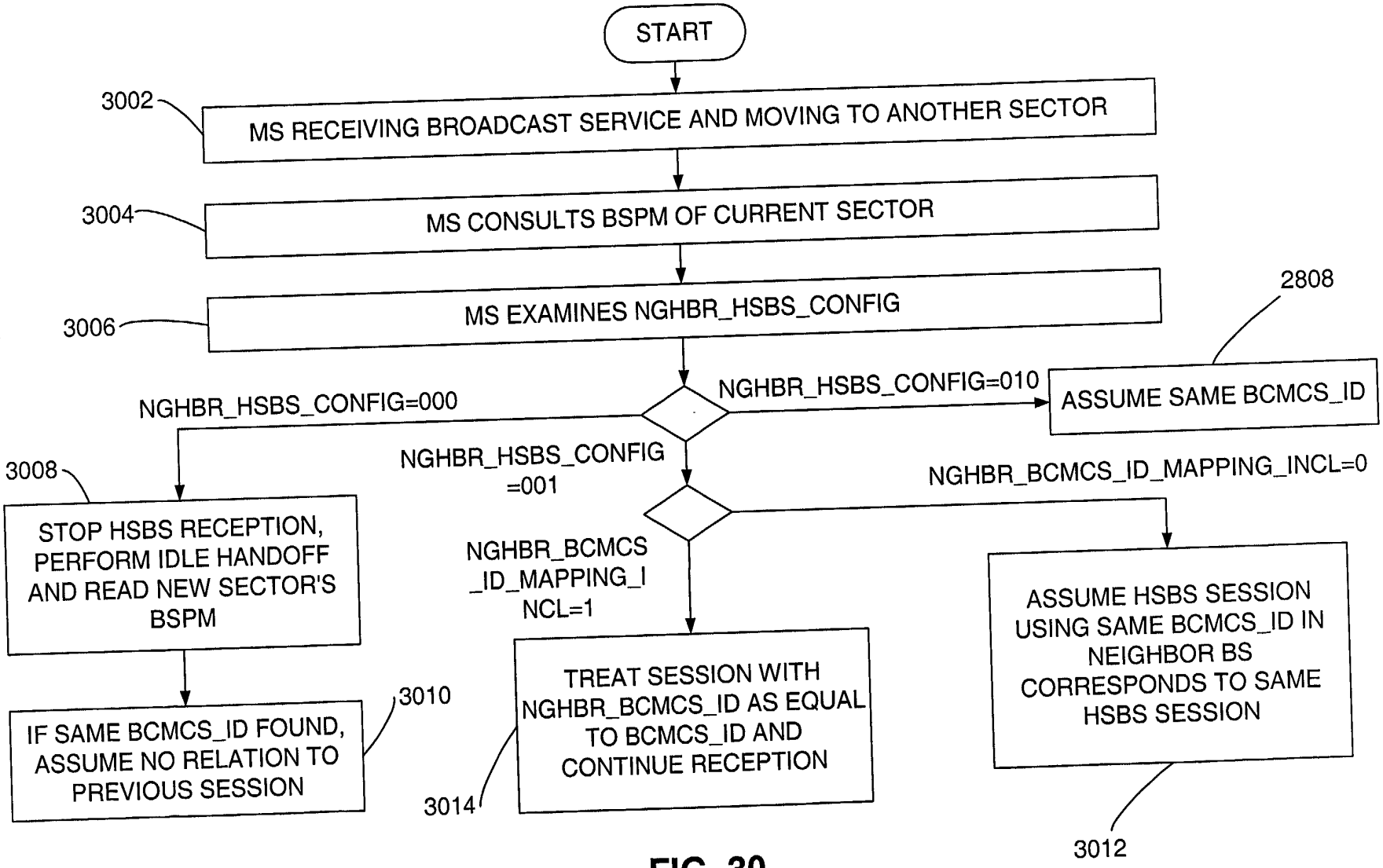

START
3002
MS RECEIVING BROADCAST SERVICE AND MOVING TO ANOTHER SECTOR
3004
MS CONSULTS BSPM OF CURRENT SECTOR
3006
MS EXAMINES NGHBR_HSBS_CONFIG
2808
NGHBR_HSBS_CONFIG=010
ASSUME SAME BCMCS_ID
NGHBR_HSBS_CONFIG=000
NGHBR_HSBS_CONFIG =001
NGHBR_BCMCS_ID_MAPPING_INCL=0
3008
STOP HSBS RECEPTION, PERFORM IDLE HANDOFF AND READ NEW SECTOR'S BSPM
NGHBR_BCMCS _ID_MAPPING_I NCL=1
ASSUME HSBS SESSION USING SAME BCMCS_ID IN NEIGHBOR BS CORRESPONDS TO SAME HSBS SESSION
3010
IF SAME BCMCS_ID FOUND, ASSUME NO RELATION TO PREVIOUS SESSION
TREAT SESSION WITH NGHBR_BCMCS_ID AS EQUAL TO BCMCS_ID AND CONTINUE RECEPTION
3014
3012

FIG. 30

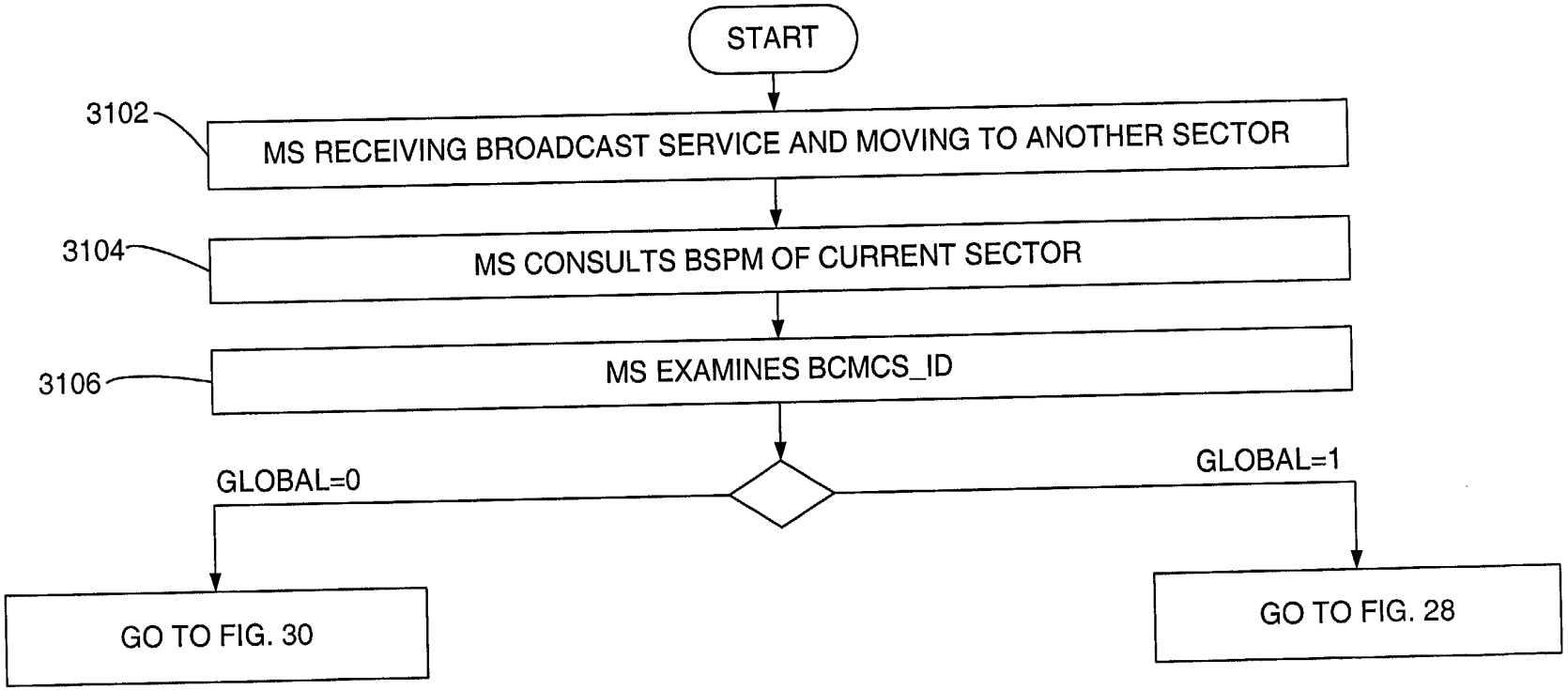

START
3102
MS RECEIVING BROADCAST SERVICE AND MOVING TO ANOTHER SECTOR
3104
MS CONSULTS BSPM OF CURRENT SECTOR
3106
MS EXAMINES BCMCS_ID
GLOBAL=0
GLOBAL=1
GO TO FIG. 30
GO TO FIG. 28

FIG. 31